

Indiana Department of Environmental Management

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Frank O'Bannon Governor

Lori F. Kaplan Commissioner

100 North Senate Avenue P. O. Box 6015 Indianapolis, Indiana 46206-6015 (317) 232-8603 (800) 451-6027 www.state.in.us/idem

MINOR SOURCE OPERATING PERMIT OFFICE OF AIR QUALITY

Wood Recycling, Inc. 1009 S. Division Street Bristol, Indiana 46507

(herein known as the Permittee) is hereby authorized to *construct and* operate subject to the conditions contained herein, the emission units described in Section A (Source Summary) of this permit.

This permit is issued to the above mentioned company under the provisions of 326 IAC 2-1.1, 326 IAC 2-6.1, and 40 CFR 52.780, with conditions listed on the attached pages.

Operation Permit No.: MSOP 039-14830-00183

Issued by: Original Signed by Paul Dubenetzky Paul Dubenetzky, Branch Chief Office of Air Quality

Issuance Date: July 30, 2002

Expiration Date: July 30, 2007

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Wood Recycling, Inc. Bristol, Indiana

Permit Reviewer: Walter Habeeb

SECTION A

SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-5.1-3(c)] [326 IAC 2-6.1-4(a)]

The Permittee owns and operates stationary scrap wood grinding and mulch production operation.

Authorized Individual: Brent Fifer

Source Address: 1009 S. Division Street, Bristol, Indiana 46507

Mailing Address: P.O. Box 458, Bristol, Indiana 46507

Phone Number: 219-848-1900

SIC Code: 4953 County Location: Elkhart

County Status: Attainment for all criteria pollutants
Source Status: Minor Source Operating Permit

A.2 Emissions units and Pollution Control Equipment Summary

This source is approved to operate the following emissions units and pollution control devices:

- (a) Two (2) outside tub wood grinders each with a maximum capacity of grinding 250 cubic yards per hour of wood and each powered by a 800 HP diesel fueled engine.
- (b) One 200 cubic yard per hour conveying, product size screening.
- (c) One mulch product dying system.
- (d) Outside raw mulch and finished mulch product storage piles.

SECTION B GENERAL CONSTRUCTION CONDITIONS

THIS SECTION OF THE PERMIT IS BEING ISSUED UNDER THE PROVISIONS OF 326 IAC 2-1.1 AND 40 CFR 52.780, WITH CONDITIONS LISTED BELOW.

B.1 Permit No Defense [IC 13]

This permit to construct does not relieve the Permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.

B.2 Definitions

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, any applicable definitions found in IC 13-11, 326 IAC 1-2, and 326 IAC 2-1.1-1 shall prevail.

B.3 Effective Date of the Permit [IC13-15-5-3]

Pursuant to IC 13-15-5-3, this permit becomes effective upon its issuance.

B.4 Revocation of Permits [326 IAC 2-1.1-9(5)]

Pursuant to 326 IAC 2-1.1-9(5)(Revocation of Permits), the Commissioner may revoke this permit if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.

B.5 Modification to Permit [326 IAC 2]

Notwithstanding the Section B condition entitled "Minor Source Operating Permit", all requirements and conditions of this construction permit shall remain in effect unless modified in a manner consistent with procedures established for modifications of construction permits pursuant to 326 IAC 2 (Permit Review Rules).

B.6 Minor Source Operating Permit [326 IAC 2-6.1]

This document shall also become a minor source operating permit pursuant to 326 IAC 2-6.1 when, prior to start of operation, the following requirements are met:

- (a) The attached Affidavit of Construction shall be submitted to the Office of Air Quality (OAQ). Permit Administration & Development Section
 - (1) If the Affidavit of Construction verifies that the facilities covered in this Construction Permit were constructed as proposed in the application, then the facilities may begin operating on the date the Affidavit of Construction is postmarked or hand delivered to IDEM.
 - (2) If the Affidavit of Construction does not verify that the facilities covered in this Construction Permit were constructed as proposed in the application, then the Permittee shall receive an Operation Permit Validation Letter from the Chief of the Permit Administration & Development Section prior to beginning operation of the facilities.
- (b) If construction is completed in phases; i.e., the entire construction is not done continuously, a separate affidavit must be submitted for each phase of construction. Any permit conditions associated with operation start up dates such as stack testing for New Source Performance Standards (NSPS) shall be applicable to each individual phase.

- (c) Upon receipt of the Operation Permit Validation Letter from the Chief of the Permit Administration & Development Section, the Permittee shall attach it to this document.
- (d) The operation permit will be subject to annual operating permit fees pursuant to 326 IAC 2-1.1-7(Fees).
- (e) Pursuant to 326 IAC 2-6.1-7, the Permittee shall apply for an operation permit renewal at least ninety (90) days prior to the expiration date established in the validation letter. If IDEM, OAQ, upon receiving a timely and complete permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied. The operation permit issued shall contain as a minimum the conditions in Section C and Section D of this permit.

SECTION C

SOURCE OPERATION CONDITIONS

Entire Source

C.1 PSD Minor Source Status [326 IAC 2-2] [40 CFR 52.21]

- (a) The total source potential to emit of NOx is less than 250 tons per year. Therefore the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) and 40 CFR 52.21 will not apply.
- (b) Any change or modification which may increase potential to emit to 250 tons per year from this source, shall cause this source to be considered a major source under PSD, 326 IAC 2-2 and 40 CFR 52.21, and shall require approval from IDEM, OAQ prior to making the change.
- (c) Any change or modification which may increase potential to emit to 10 tons per year of any single hazardous air pollutant, twenty-five tons per year of any combination of hazardous air pollutants, or 100 tons per year of any other regulated pollutant from this source, shall cause this source to be considered a major source under Part 70 Permit Program, 326 IAC 2-7, and shall require approval from IDEM, OAQ prior to making the change.

C.2 Preventive Maintenance Plan [326 IAC 1-6-3]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMP) after issuance of this permit, including the following information on each emissions unit:
 - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions;
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.
- (b) The Permittee shall implement the Preventive Maintenance Plans as necessary to ensure that failure to implement the Preventive Maintenance Plan does not cause or contribute to a violation of any limitation on emissions or potential to emit.
- (c) PMP's shall be submitted to IDEM, OAQ, upon request and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its Preventive Maintenance Plan whenever lack of proper maintenance causes or contributes to any violation.

C.3 Permit Revision [326 IAC 2-5.1-3(e)(3)] [326 IAC 2-6.1-6]

(a) The Permittee must comply with the requirements of 326 IAC 2-6.1-6 whenever the Permittee seeks to amend or modify this permit.

(b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management Permits Branch, Office of Air Quality 100 North Senate Avenue, P.O. Box 6015 Indianapolis, Indiana 46206-6015

Any such application should be certified by the "authorized individual" as defined by 326 IAC 2-1.1-1.

(c) The Permittee shall notify the OAQ within thirty (30) calendar days of implementing a notice-only change. [326 IAC 2-6.1-6(d)]

C.4 Inspection and Entry [326 IAC 2-5.1-3(e)(4)(B)] [326 IAC 2-6.1-5(a)(4)]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, U.S. EPA, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a permitted source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) Have access to and copy, at reasonable times, any records that must be kept under this title or the conditions of this permit or any operating permit revisions;
- (c) Inspect, at reasonable times, any processes, emissions units (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit or any operating permit revisions;
- (d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

C.5 Transfer of Ownership or Operation [326 IAC 2-6.1-6(d)(3)]

Pursuant to [326 IAC 2-6.1-6(d)(3)]:

- (a) In the event that ownership of this source is changed, the Permittee shall notify IDEM, OAQ, Permits Branch, within thirty (30) days of the change.
- (b) The written notification shall be sufficient to transfer the permit to the new owner by an notice-only change pursuant to 326 IAC 2-6.1-6(d)(3).
- (c) IDEM, OAQ, shall issue a revised permit.

The notification which shall be submitted by the Permittee does require certification by the "authorized individual" as defined by 326 IAC 2-1.1-1.

C.6 Permit Revocation [326 IAC 2-1-9]

Pursuant to 326 IAC 2-1-9(a)(Revocation of Permits), this permit to operate may be revoked for any of the following causes:

- (a) Violation of any conditions of this permit.
- (b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this permit.
- (c) Changes in regulatory requirements that mandate either a temporary or permanent reduction of discharge of contaminants. However, the amendment of appropriate sections of this permit shall not require revocation of this permit.
- (d) Noncompliance with orders issued pursuant to 326 IAC 1-5 (Episode Alert Levels) to reduce emissions during an air pollution episode.
- (e) For any cause which establishes in the judgment of IDEM, the fact that continuance of this permit is not consistent with purposes of this article.

C.7 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.8 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions). 326 IAC 6-4-2(4) is not federally enforceable.

Testing Requirements

C.9 Performance Testing [326 IAC 3-6]

(a) Compliance testing on new emissions units shall be conducted within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up, if specified in Section D of this approval. All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management Compliance Data Section, Office of Air Quality

100 North Senate Avenue, P. O. Box 6015 Indianapolis, Indiana 46206-6015

no later than thirty-five (35) days prior to the intended test date. The Permittee shall submit a notice of the actual test date to the above address so that it is received at least two weeks prior to the test date.

(b) All test reports must be received by IDEM, OAQ within forty-five (45) days after the completion of the testing. An extension may be granted by the IDEM, OAQ, if the source submits to IDEM, OAQ, a reasonable written explanation within five (5) days prior to the end of the initial forty-five (45) day period.

The documentation submitted by the Permittee does not require certification by the "authorized individual" as defined by 326 IAC 2-1.1-1.

Compliance Monitoring Requirements

C.10 Compliance Monitoring [326 IAC 2-1.1-11]

Compliance with applicable requirements shall be documented as required by this permit. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. All monitoring and record keeping requirements not already legally required shall be implemented when operation begins.

C.11 Monitoring Methods [326 IAC 3]

Any monitoring or testing required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, or other approved methods as specified in this permit.

Record Keeping and Reporting Requirements

C.12 Malfunctions Report [326 IAC 1-6-2]

Pursuant to 326 IAC 1-6-2 (Records; Notice of Malfunction):

- (a) A record of all malfunctions, including startups or shutdowns of any facility or emission control equipment, which result in violations of applicable air pollution control regulations or applicable emission limitations shall be kept and retained for a period of three (3) years and shall be made available to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) or appointed representative upon request.
- (b) When a malfunction of any facility or emission control equipment occurs which lasts more than one (1) hour, said condition shall be reported to OAQ, using the Malfunction Report Forms (2 pages). Notification shall be made by telephone or facsimile, as soon as practicable, but in no event later than four (4) daytime business hours after the beginning of said occurrence.
- (c) Failure to report a malfunction of any emission control equipment shall constitute a violation of 326 IAC 1-6, and any other applicable rules. Information of the scope and

- expected duration of the malfunction shall be provided, including the items specified in 326 IAC 1-6-2(a)(1) through (6).
- (d) Malfunction is defined as any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner. [326 IAC 1-2-39]

C.13 Monitoring Data Availability [326 IAC 2-6.1-2] [IC 13-14-1-13]

- (a) With the exception of performance tests conducted in accordance with Section C-Performance Testing, all observations, sampling, maintenance procedures, and record keeping, required as a condition of this permit shall be performed at all times the equipment is operating at normal representative conditions.
- (b) As an alternative to the observations, sampling, maintenance procedures, and record keeping of subsection (a) above, when the equipment listed in Section D of this permit is not operating, the Permittee shall either record the fact that the equipment is shut down or perform the observations, sampling, maintenance procedures, and record keeping that would otherwise be required by this permit.
- (c) If the equipment is operating but abnormal conditions prevail, additional observations and sampling should be taken with a record made of the nature of the abnormality.
- (d) If for reasons beyond its control, the operator fails to make required observations, sampling, maintenance procedures, or record keeping, reasons for this must be recorded.
- (e) At its discretion, IDEM may excuse such failure providing adequate justification is documented and such failures do not exceed five percent (5%) of the operating time in any quarter.
- (f) Temporary, unscheduled unavailability of staff qualified to perform the required observations, sampling, maintenance procedures, or record keeping shall be considered a valid reason for failure to perform the requirements stated in (a) above.

C.14 General Record Keeping Requirements [326 IAC 2-6.1-2]

- (a) Records of all required monitoring data and support information shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be kept at the source location for a minimum of three (3) years and available upon the request of an IDEM, OAQ, representative. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a written request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Records of required monitoring information shall include, where applicable:
 - (1) The date, place, and time of sampling or measurements;
 - (2) The dates analyses were performed;
 - (3) The company or entity performing the analyses;

- (4) The analytic techniques or methods used;
- (5) The results of such analyses; and
- (6) The operating conditions existing at the time of sampling or measurement.
- (c) Support information shall include, where applicable:
 - (1) Copies of all reports required by this permit;
 - All original strip chart recordings for continuous monitoring instrumentation;
 - (3) All calibration and maintenance records;
 - (4) Records of preventive maintenance shall be sufficient to demonstrate that failure to implement the Preventive Maintenance Plan did not cause or contribute to a violation of any limitation on emissions or potential to emit. To be relied upon subsequent to any such violation, these records may include, but are not limited to: work orders, parts inventories, and operator's standard operating procedures. Records of response steps taken shall indicate whether the response steps were performed in accordance with the Compliance Response Plan required by Section C Compliance Monitoring Plan Failure to take Response Steps, of this permit, and

whether a deviation from a permit condition was reported. All records shall briefly describe what maintenance and response steps were taken and indicate who performed the tasks.

(d) All record keeping requirements not already legally required shall be implemented when operation begins.

C.15 General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2] [IC 13-14-1-13]

- (a) To affirm that the source has met all the compliance monitoring requirements stated in this permit the source shall submit a Quarterly Compliance Monitoring Report. Any deviation from the requirements and the date(s) of each deviation must be reported. The Compliance Monitoring Report shall include the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management Compliance Data Section, Office of Air Quality 100 North Senate Avenue, P. O. Box 6015 Indianapolis, Indiana 46206-6015

(c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

- (d) Unless otherwise specified in this permit, any quarterly report shall be submitted within thirty (30) days of the end of the reporting period. The report does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (e) All instances of deviations must be clearly identified in such reports. A reportable deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit or a rule. It does not include:
 - (1) An excursion from compliance monitoring parameters as identified in Section D of this permit unless tied to an applicable rule or limit; or
 - (2) A malfunction as described in 326 IAC 1-6-2; or
 - (3) Failure to implement elements of the Preventive Maintenance Plan unless lack of maintenance has caused or contributed to a deviation.
 - (4) Failure to make or record information required by the compliance monitoring provisions of Section D unless such failure exceeds 5% of the required data in any calendar quarter.

A Permittee's failure to take the appropriate response step when an excursion of a compliance monitoring parameter has occurred or failure to monitor or record the required compliance monitoring is a deviation.

- (f) Any corrective actions or response steps taken as a result of each deviation must be clearly identified in such reports.
- (g) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period.

C.16 Annual Notification [326 IAC 2-6.1-5(a)(5)]

- (a) Annual notification shall be submitted to the Office of Air Quality stating whether or not the source is in operation and in compliance with the terms and conditions contained in this permit.
- (b) Noncompliance with any condition must be specifically identified. If there are any permit conditions or requirements for which the source is not in compliance at any time during the year, the Permittee must provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be, achieved. The notification must be signed by an authorized individual.
- (c) The annual notice shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in the format attached no later than March 1 of each year to:

Compliance Branch, Office of Air Quality Indiana Department of Environmental Management 100 North Senate Avenue, P.O. Box 6015 Indianapolis, IN 46206-6015 Wood Recycling, Inc. Bristol, Indiana

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(d) The notification shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

Bristol, Indiana Permit Reviewer: Walter Habeeb

SECTION D.1

EMISSIONS UNIT OPERATION CONDITIONS

Grinding, screening and storage of wood

- Two (2) outside tub wood grinders each with a maximum capacity of grinding 250 cubic yards (a) per hour of wood and each powered by a 800 HP diesel fueled engine.
- One 200 cubic yard per hour conveying, product size screening. (b)
- One mulch product dving system. (c)
- Outside raw mulch and finished mulch product storage piles. (b)

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards

D.1.1 Particulate Matter (PM) [326 IAC 6-3-2(c)]

Pursuant to 326 IAC 6-3-2, the allowable PM emissions rates from the conveying, screening system and the two (2) outside wood grinders shall not exceed 41.09 pounds per hour when operating at a process weight rate of 34.02 tons per hour.

The pounds per hour limitation was calculated with the following equation:

Interpolation and extrapolation of the data for the process weight rates in excess of sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

E = 55.0 P - 40; where E = rate of emissions in lbs/hr and P = process weight in ton/hr.

D.1.2 SO₂ Emissions Limitation [326 IAC 7-1.1-2]

Sulfur Dioxide emissions from fuel combustion facilities shall be limited as follows, unless specified otherwise in 326 IAC 7-4.

Five-tenths (0.5) pound per million Btu for distillate oil combustion.

Fugitive Dust Emissions [326 IAC 6-4-2]

Emissions of fugitive dust from the outside wood grinding processes and the storage piles listed in D.1 shall be limited to less than the following:

A source or combination of sources which cause to exist fugitive dust concentrations (a) greater than sixty-seven percent (67%) in excess of ambient upwind concentrations as determined by the following formula:

> P= 100(R-U)/U where P = Percentage increase

> > R = Number of particles of fugitive dust measured at the downward receptor site U = Number of particles of fugitive dust measured at upwind of background site

The fugitive dust is comprised of fifty percent (50%) or more respirable dust, then the (b) percent increase of dust concentration in subdivision (1) of this section shall be modified as follows:

> $P_R = (1.5 + N) P$ where N = Fraction of fugitive dust that is respirable dust

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PR = allowable percentage increase in dust concentration above backgrounds
P = no value greater that sixty-seven percent (67%)

- (c) The ground level ambient air concentrations exceed fifty (50) micrograms per cubic meter above background concentrations for a sixty (60) minute period.
- (d) If fugitive dust is visible crossing the boundary or property line of a source. This subdivision may be refuted by factual data expressed in subdivision (1), (2) or (3) of this section.

D.1.4 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan, in accordance with Section C - Preventive Maintenance Plan, of this permit, is required for this emissions unit and any control devices.

Compliance Determination Requirements

D.1.5 Testing Requirements [326 IAC 2-1.1-11]

The Permittee is not required to test this emissions unit by this permit. However, IDEM may require compliance testing when necessary to determine if the emissions unit is in compliance. If testing is required by IDEM, compliance with the particulate matter limit specified in Condition D.1.1 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

Compliance Monitoring Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.1.6 Particulate Matter (PM)

The sprayed water suppression system shall be in operation at all times when the outside wood grinding process is in operation. The use of water as a dust suppressant shall be the primary means of dust control for the raw mulch and finished mulch storage piles. The water shall be applied, as necessary, to the raw mulch and finished mulch storage piles to prevent emissions of fugitive particulate matter from crossing the Wood Recycling, Inc. property line. Records of spraying water onto piles shall also be required.

D.1.7 Visible Emission Notations

- (a) Visible emission notations of the outdoor wood grinding operation and the storage piles shall be performed once per shift during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.

D.1.8 Open Burning: liability for fires (326 IAC 4-1-5)

Pursuant to 326 IAC 4-1-5, the wood and mulch storage piles shall be checked daily (except on weekends) for hot spots and or fires in the storage piles. Upon discovery of a hot spot or fire immediate corrective action must be taken to extinguish the fire or hot spot.

Record Keeping and Reporting Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)] D.1.9 Record Keeping Requirements

- (a) To document compliance with Conditions D.1.6, D.1.7 and D.1.8, the Permittee shall maintain records of visible observations of fugitive emissions from the grinding, conveying and storage pile operations and of water spraying on the storage piles.
- (b) All records shall be maintained in accordance with Section C General Record Keeping Requirements, of this permit.

Page 18 of 23 MSOP 039-14830-00183 Wood Recycling, Inc. Bristol, Indiana

Reviewer: Walter Habeeb

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT **OFFICE OF AIR QUALITY COMPLIANCE BRANCH**

MINOR SOURCE OPERATING PERMIT **ANNUAL NOTIFICATION**

This form should be used to comply with the notification requirements under 326 IAC 2-6.1-5(a)(5).

Company Name: wood Recycling, Inc.	
Address: 1009 S. Division Street	
City: Bristol, IN 46507	
Phone #: 574-848-1900	
MSOP #: 039-14830-00183	
hereby certify that Wood Recycling, Inc is	9 still in operation.9 no longer in operation.
	compliance with the requirements of MSOP 039-14830-00183. in compliance with the requirements of MSOP 039-14830-00183.
Authorized Individual (typed):	
Title:	
Signature:	
Date:	
	for which the source is not in compliance, provide a narrative ce did or will achieve compliance and the date compliance
Noncompliance:	

MALFUNCTION REPORT INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT **OFFICE OF AIR QUALITY**

Page 19 of 23 MSOP 039-14830-00183

Wood Recycling, Inc. Bristol, Indiana Reviewer: Walter Habeeb

FAX NUMBER - 317 233-5967

	be used to report malfu				
and to	qualify for the exemption	on under 326 IAC 1-6-	<u>-4.</u>		
THIS FACILITY MEETS THE APPLICABIL PARTICULATE MATT NITROGEN OXIDES?	ER ?, 25 TONS/YE				EAR
25 TONS/YEAR VOC ?, 25 TONS/YE/ ?, 25 TONS/YE/ ?, 100TONS/YE POLLUTANT ?, TON/YEAR LEAD OR	EAR HYDROGEN SULFI AR REDUCED SULFUR AR CARBON MONOXIDI 25 TONS/YEAR ANY CO LEAD COMPOUNDS ME DER 326 IAC 2-5.1-3(2) ? NT OR PROCESS EQUIF	COMPOUNDS ? E ?, 10 TONS/Y OMBINATION HAZARI EASURED AS ELEME	_, 25 TONS/YEAR FL EAR ANY SINGLE HA DOUS AIR POLLUTAI NTAL LEAD ?	UORIDE AZARDO NT ? OR IS A	ES DUS AIR , 1
THIS MALFUNCTION RESULTED IN A VI PERMIT LIMIT OF	OLATION OF: 326 IAC _	OR, PERMIT (CONDITION #	_ AND/	OR
THIS INCIDENT MEETS THE DEFINITION	N OF 'MALFUNCTION' AS	S LISTED ON REVER	SE SIDE ? Y	N	
THIS MALFUNCTION IS OR WILL BE LOI	NGER THAN THE ONE (1) HOUR REPORTING	REQUIREMENT?	Υ	N
COMPANY:		PHONE N	IO. ()		
COMPANY:LOCATION: CITY AND COUNTYAFS PLATE PERMIT NO AFS PLATE PL					
CONTROL/PROCESS DEVICE WHICH MA	LFUNCTIONED AND RE	AFS POINT ID: _ ASON	IN	ISP:	
DATE/TIME MALFUNCTION STARTED: ESTIMATED HOURS OF OPERATION WIT					AM / PM
DATE/TIME CONTROL EQUIPMENT BAC	CK-IN SERVICE/_	/ 20	AM/PM		
TYPE OF POLLUTANTS EMITTED: TSP,	PM-10, SO2, VOC, 0	OTHER:			
ESTIMATED AMOUNT OF POLLUTANT EN	MITTED DURING MALFU	NCTION:			
MEASURES TAKEN TO MINIMIZE EMISSION	DNS:				
REASONS WHY FACILITY CANNOT BE SH	HUTDOWN DURING REF	PAIRS:			
CONTINUED OPERATION REQUIRED TO CONTINUED OPERATION NECESSARY TO CONTINUED OPERATION NECESSARY TO INTERIM CONTROL MEASURES: (IF APPLIANCE)	O PREVENT INJURY TO O PREVENT SEVERE DA	PERSONS:			
MALFUNCTION REPORTED BY:(SIGNATURE IF FAXED)	TITLE:			
MALFUNCTION RECORDED BY:*SEE PAGE 2					

PAGE 1 OF 2

Please note - This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6 and to qualify for the exemption under 326 IAC 1-6-4.

326 IAC 1-6-1 Applicability of rule

Sec. 1. This rule applies to the owner or operator of any facility required to obtain a permit under 326 IAC 2-5.1 or 326 IAC 2-6.1.

326 IAC 1-2-39 "Malfunction" definition

If this item is checked on the front, please explain rationale:

- Sec. 39. Any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner.
- *Essential services are interpreted to mean those operations, such as, the providing of electricity by power plants. Continued operation solely for the economic benefit of the owner or operator shall not be sufficient reason why a facility cannot be shutdown during a control equipment shutdown.

PAGE 2 OF 2

Mail to: Permit Administration & Development Section

Office Of Air Quality 100 North Senate Avenue P. O. Box 6015

Indianapolis, Indiana 46206-6015

1009 S. Division Street Bristol, Indiana 46507

Affidavit of Construction

I.		, being duly sworn upon my oa	th. depose and sav:
(Name o	of the Authorized Representative)	,	
1.	I live in	County, Indiana a	and being of sound mind and over twenty-one
	(21) years of age, I am competent		•
2	I hold the position of	for	
2.	I hold the position of(Tit	le)	(Company Name)
3.	By virtue of my position with	(O	,l have personal
		(Company Name)	
	knowledge of the representations of	contained in this affidavit and a	m authorized to make
	these representations on behalf of	/Company No	 me)
		(Company Nar	ne)
4.	outside tub wood grinder in confor	mity with the requirements and on September 4, 2001; and a	reet, Bristol, Indiana 46507, has constructed a dintent of the Construction Permit Application as permitted pursuant to Permit No. 039 -
Further Affiant sa I affirm under per		ons contained in this affidavit a	are true, to the best of my information and
		Signature	
		Date	
STATE OF INDIA	NA)	Bute	
COUNTY OF)		
	Subscribed and sworn to	me, a notary public in and for	County and
	State of Indiana on this	day of	, 19 _.
My Commission 6	expires:		Signature
			<u> </u>
			Name (typed or printed)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY COMPLIANCE DATA SECTION

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Source Name:	Wood Recycling,	Inc.
Source Address:	1009 S. Division	St., Bristol, In. 46507
Mailing Address:	1009 S. Division	St., Bristol, In. 46507
PERMIT No.:	039-14830-0018	33
	Months:	to

Page 1 of 2 This report is an affirmation that the source has met all the requirements stated in this permit. This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. Deviations that are required to be reported by an applicable requirement shall be reported according to the schedule stated in the applicable requirement and do not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period". 9 NO DEVIATIONS OCCURRED THIS REPORTING PERIOD. 9 THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD Permit Requirement (specify permit condition #) **Date of Deviation: Duration of Deviation: Number of Deviations: Probable Cause of Deviation:** Response Steps Taken: **Permit Requirement** (specify permit condition #) **Date of Deviation: Duration of Deviation: Number of Deviations: Probable Cause of Deviation:** Response Steps Taken:

Year:

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			Page 2 of 2
Permit Requirement (specify	y permit condition #)		
Date of Deviation:		Duration of Deviation:	
Number of Deviations:			
Probable Cause of Deviatio	n:		
Response Steps Taken:			
Permit Requirement (specify	y permit condition #)		
Date of Deviation:		Duration of Deviation:	
Number of Deviations:			
Probable Cause of Deviatio	n:		
Response Steps Taken:			
Permit Requirement (specify	y permit condition #)		
Date of Deviation:		Duration of Deviation:	
Number of Deviations:			
Probable Cause of Deviatio	n:		
Response Steps Taken:			
	Form Completed By:		
	Title/Position:		
	Date:		
	Phone:		

Attach a signed certification to complete this report.

Indiana Department of Environmental Management Office of Air Quality

Addendum to the

Technical Support Document (TSD) for a Minor Source Operating Permit

Source Background and Description

Source Name: Wood Recycling, Inc.

Source Location: 1009 S. Division Street, Bristol, IN 46507

County: Elkhart SIC Code: 2499

Operation Permit No.: 039-14830-00183 Permit Reviewer: Walter Habeeb

On June 17, 2002, the Office of Air Quality (OAQ) had a notice published in the Bristol Public Library, Bristol IN. stating that Wood Recycling, Inc. has applied for a Minor Source Operating Permit to operate a wood recycling mulch plant. The notice also stated that OAQ proposed to issue a permit for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty(30) days to provide public comments on whether or not this permit should be issued as proposed.

Upon further evaluation IDEM has made the following changes (bold has been added and strikeout has been removed):

- 1) Condition D.1.6 has been revised to delete a condition that is also indicated in D.1.7.
 - D.1.6 Particulate Matter

A trained employee shall determine visual particulate emissions and a record kept of these observations in a journal.

- 2) Condition D.1.9(a) has been revised to remove an incorrect condition number that was referenced and the correct one was added.
 - D.1.9(a) Record Keeping Requirements

Remove reference Condition D.1.9 and add Condition D.1.6.

Indiana Department of Environmental Management Office of Air Quality

Technical Support Document (TSD) for a Minor Permit Revision to a Prevention of Significant Deterioration Permit

Source Description and Amendment Request

Source Name: Whiting Clean Energy, Inc

Source Location: 2155 Standard Avenue, Whiting, Indiana 4639

County: Lake SIC Code: 4911

Operation Permit No.: T 089-11194-00449

Operation Permit Issuance Date: July 20, 2000

Minor Permit Revision No: CP-089-15985-00449

Permit Reviewer: Walter Habeeb

On May 14, 2002, the Office of Air Quality (OAQ) received a request from Whiting Clean Energy, Inc. for a modification to CP-089-11194-00449. The request was a result of response to a request to the United States Environmental Protection Agency (U.S. EPA). The request was for approval of alternative monitoring requirements's under the New Source Performance Standards (NSPS) Subpart Da and approval of alternative sulfur monitoring requirements under the NSPS Subpart GG for this facility.

Whiting Clean Energy, Inc.(WCE) is a combined cycle cogeneration facility consisting of two GE Frame 7FA combustion turbines(CT) and two heat recovery steam generators (HRSG) with duct burner firing. The HRSG and CT's are fueled exclusively with natural gas that meets the criteria to be considered pipeline quality. The emissions from the duct burners commingle with the emissions from the CT's.

The duct burners are new sources subject to NSPS Subpart Da and must comply with the Nox limit of 1.6 lb Nox /Mwh gross energy output, based on a 30 day rolling average. To comply with this limit, WCE has proposed to use equation 3 under 40 CFR 60.46a(k)(2)(iv). With this equation the hourly NOx mass rate will be obtained from continuous fuel flowmeters following the appropriate measurement procedures specified in Appendix D to Part 75. WCE will produce electricity from the CT's and steam from the HRSG. The steam generated by the HRSG will be delivered to a host industrial process.

Based on WCE's process, the point of emission generation occurs at the CT exhaust stream. At this point, the gross useful work performed is the gross electrical output from the CT. Because WCE stated that NOx CEM will be installed to measure the NOx emission from the entire system, U.S. EPA approved WCE's alternate monitoring request following the compliance option under 40 CFR 60.46a(k)(3). The compliance provision under 40 CFR 60.46a(k)(3) requires WCE to measure NOx emissions at the point where emissions from the duct burner combine with the emissions from the CT, connected to a common stack. WCE will use the equation in Appendix D to Part 72 to calculate the actual gross electrical output, using the actual heat input instead of the maximum design heat input. The hourly emission (lb/hr) from the NOx CEM will be divided by the gross electrical output to yield values in terms of the standard (lb/MWh). WCE must conduct a performance test for the NOx CEM after startup, as required under 40 CFR 60.8, not during startup.

Since the CT's will be combusting only pipeline quality natural gas, a custom fuel monitoring schedule will be approved by the Administrator under Section 60.334(b)(2) based on the design/

Minor Permit Modification: CP-089-15985-00449

Page 2 of 2

T089-11194-00449

Whiting Clean Energy, Inc. Whiting, Indiana Permit Reviewer: Walter Habeeb

operation of the affected facility and the characteristics of the fuel supply. WCE has proposed for fuel sulfur content that the limit of 40 CFR 60.333(b) of 0.8 percent by weight (8,000 ppm) be utilized to ensure that consistent compliance with the NSPS requirement will be achieved. U.S. EPA and IDEM, therefore, grant WCE's request for a custom fuel monitoring schedule for the combustion turbines under Subpart GG consistent with U.S. EPA's national guidance on the topic

contained in a policy memorandum, dated August 14, 1987 as follows:

- 1) Monitoring of fuel nitrogen content will not be required since pipeline natural gas is the only fuel fired in each turbine.
- 2) Measurement of the sulfur content of the pipeline natural gas will be conducted by manual sampling followed by analysis. Sulfur content will be determined via any of the following American Society for Testing Materials (ASTM) methods: ASTM D1072-90, ASTM D4084-94, ASTM D4468-85, ASTM D5504-94, ASTM D3246-81. The applicable ranges of some ASTM methods are not adequate to measure the levels of sulfur in some fuel gases. Dilution of samples before analysis (with verification of the dilution ratio)may be used, subject to the approval of the Administrator.
- 3) Initial samples must be collected and analyzed twice a month for six months. If six months of bi-monthly sampling and analysis indicate that the sulfur concentrations are well below the applicable standard with low variability, the sampling frequency will be reduced to quarterly monitoring.
- 4) If six quarters of quarterly sampling and analysis indicate sulfur concentrations are well below the applicable standard with low variability, the sampling frequency will be reduced to semi-annual monitoring.
- 5) If any analysis indicate noncompliance with the applicable sulfur limit of 0.8 weight percent in 40CFR Section 60.333(b), samples must be collected and analyzed on a weekly basis while the custom fuel monitoring schedule is re-examined. The Permittee will notify OAQ and U.S. EPA of the exceedance in accordance with 40 CFR Section 60.7(c).
- 6) If there is a substantial change in fuel quality, samples must be collected and analyzed on a weekly basis while the custom fuel monitoring schedule is re-examined.
- 7) Records of sample analyses and fuel supply information related to sulfur content of the fuel will be retained for a least three years and shall be available for inspection upon request.
- 8) The Permittee may use the custom fuel monitoring protocol to demonstrate compliance with SO₂ limits, as require, for the turbines and duct burners as an alternative to stack testing for requirements of D.1.4.
- 9) WCE may use NOx CEM data to demonstrate compliance with 40 CFR Part 60, Subpart GG in lieu of fuel nitrogen monitoring.

Sections D.1.13 (Performance Testing) and D.1.15 (Natural Gas Monitoring) of the Permit have been modified to reflect the above agreed upon changes to the Permit.

Appendix A: Emission Calculations Internal Combustion Engines - Diesel Fuel Turbine (>600 HP)

Company Name: Wood Recycling, Inc.

Address City IN Zip: 1009 S. Division Street, Bristol, In 46507

CP#: CP039-14830
Plt ID: P039-00183
Reviewer: Walter Habeeb
Date: Feb. 26, 2002

A. Emissions calculated based on heat input capacity (MMBtu/hr)

Heat Input Capacit	y
MM Btu/hr	

S= = WEIGHT % SULFUR

		Pollutant						
	PM*	PM* PM10* SO2 NOx VO						
Emission Factor in lb/MMBtu	0.1	0.0573	0.0		0.1	0.85		
			(1.01S)	**see below				
Potential Emission in tons/yr	0.0	0.0	0.0	0.0	0.0	0.0		

^{**}NOx emissions: uncontrolled = 3.2 lb/MMBtu, controlled with ignition timing retard = 1.9 lb/MMBtu

B. Emissions calculated based on output rating (hp)

Heat Input Capacity Potential Throughput S= 0.5 = WEIGHT % SULFUR Horsepower (hp) hp-hr/yr

800.0 7008000.0

	Pollutant						
	PM*	PM10*	VOC	CO			
Emission Factor in lb/hp-hr	0.0007	0.05730	0.0040	0.013	0.00071	0.00550	
			(.00809S)	**see below			
Potential Emission in tons/yr	2.5	1.5	14.2	45.6	2.5	19.3	

^{**}NOx emission factor: uncontrolled = 0.024 lb/hp-hr, controlled by ignition timing retard = 0.013 lb/hp-hr Note that the PM10 emission factor in lb/hp-hr is not provided in the Supplement B update of AP-42. An average conversion factor of 1hp-hr = 7,000Btu is provided below.

Methodology

Potential Througput (hp-hr/yr) = hp * 8760 hr/yr

Emission Factors are from AP 42 (Supplement B 10/96)Table 3.4-1 and Table 3.4-2

1 hp-hr = 7000 Btu, AP42 (Supplement B 10/96), Table 3.3-1, Footnote a.

Emission (tons/yr) = [Heat input rate (MMBtu/hr) x Emission Factor (lb/MMBtu)] * 8760 hr/yr / (2,000 lb/ton)

Emission (tons/yr) = [Potential Throughput (hp-/hr/yr) x Emission Factor (lb/hp-hr)] / (2,000 lb/ton)

*No information was given regarding which method was used to determine the PM emission factor or whether condensable PM is included. The PM10 emission factor is filterable and condensable PM10 combined.

icdsl600.wb3

Note: Check the applicable rules and test methods for PM and PM10 when using the above emission factors to confirm that the correct factor is used (i.e., condensable included/not included).

Appendix A: Emission Calculations Internal Combustion Engines - Diesel Fuel

Company Name: Wood Recycling, Inc.

Address City IN Zip: 1009 S. Division Street, Bristol, In 46507

 CP#::
 F039-14830

 Plt ID:
 P-00183

 Reviewer:
 Walter Habeeb

 Date:
 Feb. 26, 2002

Potential Emissions in tons/yr. - Diesel Engines

Pollutant	PM	PM10	SO2	NOx	VOC	CO
Stationary Tub Grinder 800 HP	2.5	1.5	14.2	45.6	2.5	19.3
Portable Tub Grinder 800 HP	2.5	1.5	14.2	45.6	2.5	19.3
Total - 2 engines	5.0	3.0	28.4	91.2	5.0	38.6